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Policies	NSW	NSW Sea level Rise Policy Statement	"up to"	2050	0.4 m
		(2009)		2100	0.9 m
	QLD	Draft Queensland Coastal Plan (2009)	Planning period is based on anticipated asset life	2050	0.3 m
				2060	0.4 m
				2070	0.5 m
				2080	0.6 m
				2090	0.7 m
				2100	0.8 m
	VIC	Victorian Coastal Strategy (2008)	"at least"	2100	0.8 m
	SA	Coastal Protection Board Formal policy		2050	0.3 m
				2100	1.0 m
	WA	WA Planning Commission Statement Of Planning Policy No. 2.6 State Coastal Planning Policy Prepared Under Section Saa Of The Town Planning And Development Act 1928	The mean of the median model of the latest (2001) Assessment Report of the IPCC Working Group	2100	0.38 m from IPCC 2001
	Standards Australia	AS 4997-2005 Guidelines for the Design of Maxime Structures	Cautions that IPCC findings are updated, with latest update to be considered	+25 yr	0.1 m
				+50 yr	0.2 m
				+100 yr	0.4 m
	National Committee on Coastal and Ocean Engineering Engineers Australia	Guidelines for Responding to the Effects of Climate Change in Coastal and Ocean Engineering (NCCOE, 2004)	Suggested engineering estimates for application over the planning period to 2100 (based on IPCC, 2001 values).	2100	
				Num	0.1 m
				Central	0.5 m
				Max	0.9 m
	Department	Climate Change Risks to Australia's	Plausible range of sea	2100	0.5 m
	of Climate Change	Joast: A First Pass National Assessment DCC, 2009)	level rise values from post IPCC (2007) research		to 1.1 m







Inundation component	s	
NSW open coast		
Tide: Barometric setup Wind setup (open coast) Wave setup (open coast) Wave runup (beaches) Wave runup (cliffs) Sea level rise (2100)	~2 m 0.3 m 0.3 m 1.5 m 2 to 5 m up to 55 m up to 0.9 m	
Water Research Laboratory		water@ UNSW

































## **Common mistakes**

- Mixing up vertical datums tide datum and AHD;
- Ignoring wave effects;
- Poor colour contrast;
- Too much effort on glossy output rather than studying or modelling processes;
- Sterilising otherwise viable land which may be inundated for 1-2 hours in 100 years if 0.9 m sea level rise occurs. This can be accommodated with floor levels or design life.



## Conclusions

- Up to five factors to consider for setback hazard lines
- Inundation hazard is considered separately to erosion
- Inundation needs to consider wave setup, and sometimes wave runup and overtopping, which can dominate for NSW
- Wave runup on cliffs can be extreme
- Complexities include:
  - Inundation through runup and overtopping
  - Inundation through the stormwater system



